Secretariat of ISO/TC 20/SC 13

our date 2001-4-24 your date

our reference ISO/TC 20/SC 13/N224 your reference

TO:	ISO/TC20/SC13 Mailing List
FROM:	ISO/TC20/SC13 Secretariat
SUBJECT:	Draft Minutes of ISO/TC20/SC13 Meeting of 30 November 2000
	a copy of the draft minutes of the 30 November 2000 meeting of ISO/TC20/SC13 n Boulder, Colorado, USA.
Best regards,	
[original sign	ned by]
John D. Kelle ISO/TC 20/S	ey SC 13 General Secretary
Attachment	

Subject: Minutes of the Nineteenth International Organization for Standardization

(ISO)/Technical Committee (TC) 20/Subcommittee (SC) 13 Meeting

Place: Boulder, Colorado, USA

Date: November 30, 2000

ATTENDANCE

Name Country/Organization

Eduardo Bergamini Brazil/INPE Qian Xiaolian China/CASI Chen Chen China/CASI France/CNES Roland Ivarnez François Forestier France/CNES Manfred Drexler Germany/DLR Mauro Donati

Italy/ASI

Hideo Hara Japan/NASDA UK/BNSC Peter Allan UK/BNSC David Giaretta Adrian Hooke USA/NASA USA/NASA John Kelley **Robert Stephens** USA/NASA Linda Kezer USA/NASA

1. **OPENING OF MEETING**

Mr. François Forestier convened the meeting at 1400 hours on November 30, 2000.

2. **ROLL CALL**

Mr. Forestier conducted a roll call; representatives from Russia or Canada were not in attendance. Mr. Forestier welcomed everyone in attendance.

3. ADOPTION OF THE AGENDA

The agenda was approved as presented. The agenda is Attachment 1.

4. APPOINTMENT OF DRAFTING COMMITTEE

In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolved that Ms. Linda Kezer, in support of the SC 13 Secretariat, would be responsible for drafting and distributing the meeting minutes.

5. REPORT OF THE SC-13 SECRETARIAT

Mr. Kelley presented the Secretariat's report. The minutes of the June 2000 meeting were approved with one change. Mr. Hara requested that "NASDA have approved DIS17433" be corrected to read "ISO/TC20/SC13 National Committee of Japan has approved DIS 17433" (page 5 of draft minutes).

The status of Action Items was reviewed. All action items were CLOSED. The action items are in Attachment 2.

The Program of Work was approved as submitted. It was noted that seven SC13 documents had attained IS status since the June meeting:

(Four SCPS, Lossless Compression, Reference Environment, and EAST)

The remainder of the Secretariat's report is in Attachment 3.

6. REPORT OF DELEGATES REGARDING ACTIVITY RELATING TO SC 13

BRAZIL Dr. Eduardo Bergamini presented the Brazil report. He showed ABNT activity relative to TC20 inputs. Notably, ABNT seeks to append associated Green Books to each basic standard. He listed the documents being translated into Portuguese. He presented the ABNT Home page of the Brazilian Information Network for the Standardization of Space Activities (RBNAE) and reviewed the approval procedure by which SC13 Standards become ABNT standards. Importantly, he stated that all CCSDS Recommendations are becoming ABNT standards. His presentation is Attachment 4.

CANADA There was no representative from Canada and no report.

CHINA Mr. Qian Xiaolian presented the China report. He reported that CASI had approved three draft international standards: ISO/FDIS 15887, 15888 and 15889. He reported that CASI has increased their efforts to promote the CCSDS and SC 13 standards with China aerospace industry. A plan is being implemented for the purpose of compatibility with CCSDS and SC 13 standards, thereby, adopting these international standards. He reported that CASI and CAST has begun work on

emphasizing the research work of CCSDS and SC13 in an effort to begin working with the preparation of these standards. His report is Attachment 5.

FRANCE Mr. Forestier presented this report. He indicated that CNES is involved with both the CCSDS and ISO reviews of our documents. He showed which spacecraft and ground facilities are using CCSDS products. Mr. Forestier listed the documents which have/are being translated into French, but noted that delays in obtaining French translations do not delay ISO's processing of CCSDS documents. Mr. Ivarnez commented that they have a resource problem with verifying the technical translations. Mr. Forestier's report is Attachment 6.

GERMANY Mr. Drexler indicated that DLR has no report since there has been little activity in this area. He did mention that DLR is trying to get activities under way to make Weilheim CCSDS compatible.

ITALY Mr. Donati indicated that ASI did not have a report.

JAPAN Mr. Hara showed the status of documents under review. He also provided responses to the Action Items. He indicated that NASDA has not received Appendix A of the Strategic Plan. He noted a personnel change or the NASDA representative to SC-13. (The Secretary will notify ISO of this change as well as change the SC-13 database.) Mr. Hara's report is Attachment 7.

RUSSIA There was no representative from Russia and no report.

UNITED KINGDOM Dr. Allan reported that BSI has indicated that, in the future, it will adopt ISO standards "as is," making no changes to the document number. He showed the numerous CCSDS-related areas in which BNSC is involved and listed the CCSDS documents that have been adopted as BSI standards. He stated that ACE/68 tracks SC14 and ECSS activities.

Dr. Allan's report is Attachment 8.

UNITED STATES Mr. Hooke reported on US activity, noting that the comments received from the ISO review of the OAIS Reference Model have already been provide to CCSDS Panel 2 for disposition. He expressed concern that a US International Traffic and Arms Regulation may severely limit our ability to function internationally. He also commented that there is an increasing interest by the US military community in the CCSDS recommendations. We need to determine a forum in which the communities can work together. Mr. Hooke's report is Attachment 9.

7. REPORT OF DELEGATES REGARDING SC13 LIAISON ACTIVITIES

Ms. Kezer discussed the number of MC Resolutions that have been adopted relative to progressing documents to ISO. Some of these related to completed documents (Blue Books) while others relate to documents under development within CCSDS (Red Books). Mr. Ivarnez indicated that SC-13 has no objection to documents still under development within CCSDS being submitted to ISO as Draft International Standards (DIS).

8. CONSIDERATION OF NEW PROJECTS/ENDORSEMENT OF EXISTING STANDARDS FROM NON-ISO BODIES

There were no items presented.

9. ANY OTHER BUSINESS

Revisions to SC-13 Strategic Plan. There were no comments made to the new ISO Strategic Plan, which previously had been distributed by the Secretary.

Consideration of new ISO Technical Committee. Mr. Stephens noted that SC-14 had terminated their plans to withdraw from TC20 and establish a new Technical Committee. He did not know the reason for this action and had hoped Mr. Bastikar would have been present to explain this decision.

During this discussion, it was agreed that a joint meeting between SC-13 and (at least parts of) SC-14. Accordingly, the Secretary was tasked to contact the SC-14 Secretary for the purpose of determining areas of joint interest (both technical and administrative) in order that a draft agenda for a joint meeting could be developed.

10. REQUIREMENTS CONCERNING A SUBSEQUENT MEETING

The next SC13 meeting was set for June 7, 2001 (PM) at RAL to be contiguous with the CCSDS Management Council meeting of June 6-7, 2001.

11. APPROVAL OF RESOLUTIONS

Ms. Kezer itemized the Resolutions taken during the meeting together with the one Action Item. These were approved.

12. ADJOURN

Mr. Forestier adjourned the meeting at 1330.

DRAFT RESOLUTIONS ISO/TC 20/SC 13 MEETING Boulder, Colorado, USA November 30, 2000

SC-F00-R01 In compliance with the ISO requirement to appoint a drafting committee, SC 13 resolves that Ms. Linda Kezer, SC13 Secretariat, will be responsible for drafting and distributing the November 30, 2000, meeting minutes.

SC-F00-R02 SC13 resolves to accept the proposal of the British National Space Center (BNSC) to host the Spring 2001 SC13 meeting in the United Kingdom, on June 7, 2001, in conjunction with the CCSDS Management Meeting scheduled for June 6-7, 2001.

SC-F00-R03 SC13 thanks the Brazilian delegate for the offer to host the Fall 2001 meeting in Brazil. A few members noted severe travel constraints in traveling to Brazil, so decision was deferred until the Spring 2001 meeting. An alternate invitation was issued by the United States to host the Fall meeting in Orlando, Florida.

SC-F00-R04 SC13 resolves to notify ISO of proposed changes to CCSDS documents/ISO documents, for concurrent ISO/CCSDS review and approval: The current document changes are:

- ISO 13419, Packet Telemetry, Pink Sheets, CCSDS 102.0-P-4.1.
- ISO DIS 17433, Packet Telemetry Services Pink Sheets, CCSDS 103.0-P-1.1.
- ISO 12172, Telecommand, Part 2 Pink Sheets, CCSDS 202.0-P-2.1.
- ISO 12174, Telecommand, Part 3 Pink Sheets, CCSDS 203.0-P-1.1.
- ISO 12173, Telecommand Part 2.1 COP-1 Pink Sheets, CCSDS 202.0-P-1.1
- ISO 1589, SCPS Network Protocol Blue Book (CCSDS 713.0-P-1.1). Changes define how the SCPS-NP can carry the IPv4 Authentication Header.
- ISO DIS 15889, Data Description Language EAST Specification (CCSDS 644.0-P-1.1).

SC-F00-R05 SC13 resolves to progress the Issue 3.3 Red Book the CCSDS File Delivery Protocol (CFDP) (CCSDS 727.0-R-n) as a Draft International Standard.

SC-F00-R06 SC13 thanks NASA and the Laboratory for Atmospheric and Space Physics (LASP) for the gracious hospitality shown during the meeting.

DRAFT ACTION ITEMS ISO/TC 20/SC 13 MEETING Boulder, Colorado,USA November 30, 2000

The following action was developed during the Fall 2000 SC13 meeting:

SC-S00-A1 Contact the SC-14 Secretariat for the purpose of determining areas of joint interest (both technical and administrative) in order that a draft agenda for a joint meeting could be developed.

Assignee: Secretariat
Due Date: April 30, 2001

ATTACHMENT 1

DRAFT AGENDA

ISO/TC 20/SC 13/N217.1

20th Meeting of ISO/TC 20/SC 13 Denver, Colorado 30 (PM) November 2000

DRAFT AGENDA

01.	Opening of the meeting (1300 hours)
02.	Roll call of delegates
	Adoption of the agenda (ISO/TC 20/SC 13/N217.1)
04.	Appointment of drafting committee
05.	Report of the secretariat
	Approval of Draft Minutes of the June 2000 Meeting
	Review Program of Work
	Status of Open Action Items
	Report of delegates regarding activities relating to SC 13
	Report of delegates regarding SC13 liaison activities
08.	Consideration of new projects/endorsement of existing
	standards from non-ISO bodies
09.	Any other business
	Revisions to SC-13 Strategic Plan (If any)
	Consideration of new ISO Technical Committee
10.	Requirements concerning a subsequent meeting
11.	Approval of resolutions and action items
12.	Adjourn - 1700

ATTACHMENT 2 ACTION ITEMS FROM PREVIOUS MEETING

ACTION ITEMS ISO/TC 20/SC 13 MEETING

June 28, 2000 Toulouse, France

The following actions were developed during the Spring 2000 meeting:

SC-S00-A1 Identify which version of the strategic plan, as distributed in the ISO

TC20/SC13 Meetings Materials, is correct and redistribute it for approval.

Assignee: Secretariat Due Date: July 31, 2000

STATUS: CLOSED - Correct version identified and distributed 29 Sept. 2000.

SC-S00-A2 Comment on the Strategic Plan to be distributed as a result of SC-S00-A1.

Assignee: All delegates

Due Date: September 15, 2000

STATUS: CLOSED - No comments were provided at the November 2000 meeting.

SC-S00-A3 Provide the Secretariat with a list of items needing clarification in the draft Agency Report Template distributed as part of the ISO TC20/SC13 Meetings Materials.

Assignee: All delegates Due Date: July 31, 2000

STATUS: CLOSED – Some agencies provided their reports in accordance with this template. No adverse comments were received at the November 2000 meeting.

SC-S00-A4 Update the Agency Report Template based on input resulting from SC-S00-A3, above, and distribute for approval.

Assignee: Secretariat

Due Date: August 15, 2000

STATUS: CLOSED - No comments were provided.

SC-S00-A5 Provide electronic copies of presentation materials to the Secretariat.

Assignee: All presenters Due Date: July 31, 2000

STATUS: CLOSED Electronic copies received from all presenters except CSA.

ATTACHMENT 3 SECRETARIAT'S REPORT

Attachment 3a

Enclosure A

ISO TC 20/SC 13/N222

ISO TC20 SC13 Secretariat Report

Colorado, United States 2000-11-30

Enclosed are the following documents:

<u>Document</u>	<u>ISO/TC20/SC 13 N#</u>
Draft Agenda (Encl A-1)	N217.1
Status of ISO/TC20/SC13 Work Program (Encl A-2)	N132
Status of SC 13 Open Action Items (Encl A-3)	N/A
Log on "N" Numbered Documents (Encl A-4)	N 18
Log of Documents Received from ISO Central Secretariat (Encl A-5)	N/A

Enclosure A-2

Enclosure A2

ISO/TC 20/SC 13/N132

STATUS OF ISO/TC20/SC13 WORK PROGRAM AS OF 01 NOVEMBER, 2000 COMPLETED WORK ITEMS (Approved International Standards)

ISO		BASED ON	CCSDS DOC	
NUMBER	TITLE	Doc.#	Date	CURRENT STATUS
ISO 11103	Radiometric & Orbit Data: 1991	501.0-B-1	87-01	Reconfirmed 1996
	(Document being Upgraded within CCSDS)			
ISO 11104	Time Code Formats: 1991	301.0-B-2	90-04	Reconfirmed 1996
*******	(Proposal within CCSDS to add a Time code)	404 0 70 8		D # 100.0
ISO 11754	Telemetry Channel Coding: 1999	101.0-B-3	92-0	Reconfirmed 99-0
ISO 12171	(Document being Updated within CCSDS) Telecommand Part 1—Channel Services	201.0-B-1	87-01	Published
150 121/1	(Document being Upgraded within	201.0-D-1	6/-01	rublished
	CCSDS)"			
ISO 12172	Telecommand Part 2Data Routing Services	202.1-B-2	92-11	Published
	(Document being Updated within CCSDS))	(202.1-B-3)		(Cover Sheet Approved 00-10)
ISO 12173	Telecommand Part 2.1 – Command Op. Proc.	202.1-B-1	91-10	Published
ISO 12174	Telecommand Part 3—Data Mgmt. Procedures	203.0-B-1	87-01	Published
ISO 12175	SFDU-Structure & Construction Rules: 1994	620.0-B-2	92-05	Reconfirmed 99-05
ISO 13419	Packet Telemetry: 1997	102.0-B-3	92-11	Published
	(Document being Upgrade within CCSDS)			
ISO 13420	AOS, N&DL: Architectural Specification:1997	701.0-B-2	92-11	Published
ISO 13764	SFDU – Control Authority Procedures: 1996	630.0-B-1	93-06	Reconfirmed 99-05
ISO 14961	PVL Specification (CCSD 0006)	641.0-B-1	92-05	Published
	(Document being upgraded within CCSDS)	(641.0-B-2)		(Cover Sheet Approved 00-10)

Enclosure A-2

ISO		BASED ON	CCSDS DOC	
NUMBER	TITLE	Doc.#	Date	CURRENT STATUS
ISO 14962	ASCII Encoded English (CCSD 0002)	643.0-B-1	92-11	Reconfirmed 99-05
ISO 15395	SFDU-Control Authority Data Structures	632.0-B-1	94-11	Published
ISO 15396	Cross Support Reference Model-SLE Services	910.4-B-1	96-05	Published
ISO 15891	Space communications protocol specification (SCPS) – Network protocol (SCPS-NP)	713.0-B-1	99-05	Published 00-10
ISO 15893	Space communications protocol specification (SCPS) – Transport protocol (SCPS-TP)	714.0-B-1	99-05	Published 00-10
ISO 15894	Space communications protocol specification (SCPS) – File protocol (SCPS-FP)	717.0-B-1	99-05	Published 00-10

Enclosure A-2

ISO/TC 20/SC 13/N132

STATUS OF ISO/TC20/SC13 WORK PROGRAM AS OF 01 NOVEMBER, 2000 (Items in Progress)

ISO		BASED ON	CCSDS DOC	
NUMBE	R TITLE	Doc.#	Date	CURRENT STATUS
CD 1472	Space Systems - Archiving Space Data	650.0-R-1	99-06	DIS Balloting Period to End 00-11
FDIS 1588	7 Lossless data compression	121.0-B-1	97-05	To Be Published 00-10
FDIS 1588	8 Standard formatted data units - Referencing environment	622.0-B-1	97-05	To Be Published 00-10
FDIS 1588	9 Data description language - EAST specification	644.0-B-1	97-05	To Be Published 00-10
DIS 1589	AOS Audio/Video and Still-Image Communications Services	704.0-B-1	94-05	Voting completed- 100% affirmative Delay granted in progressing to FDIS. (CCSDS is studying continued applicability of Recommendation.)
DIS 1589	Space communications protocol specification (SCPS) – Security protocol (SCPS-SP)	713.5-B-1	99-05	To Be Published 00-09
FDIS 1743		103.0-B-1	96-05	Form 13 Submitted 00-05

ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13

"N"	Date		
Number	Issued	Status *	Description
N1	90-04-26	S (N1/1)	Notice of 90-09-24 meeting/Draft Agenda
N1/1	90-08-14		Revised Agenda
N2	90-09-24		USSR Proposal on Liquid Rocket Engine Testing
N3	90-09-24	S (N20)	ISO TC 20/SC 13 Charter & Scope
N4	90-09-25		Report of SC 13 Secretariat
N5	90-09-25		Resolutions of First Meeting
N6	90-10-15		Minutes of First Meeting
N7	90-10-15	S (N18)	Communications Log
N8	90-10-15	S (N15)	Project Log
N9	91-02-14		DIS 11103 Radio Metric & Orbit Data (English)
N10	91-02-14		DIS 11103 Radio Metric & Orbit Data (French)
N11	91-02-14		DIS 11104 Time Code Formats (English)
N12	91-02-14		DIS 11104 Time Code Formats (French)
N13	91-02-14		Cancellation Notice for 25 April 1991 SC 13 Meeting
N14	91-02-14	S (N18)	Communications Log
N15	91-02-14		Project Log
N16	91-03-05		SC 13 Status Report to TC 20 Plenary
N17	91-03-05	S (N165)	SC 13 Master Plan
N18	91-03-05		Log of "N" Numbered Documents
N19	91-04-26		Preliminary Notice of Meeting and Status Report
N20	91-04-26		ISO TC 20/SC 13 Charter & Scope (Approved at TC 20 Plenary)
N21	91-04-26		SC 13 Master Directory

^{*} C = Cancelled; S = See superseded version; if no entry, then document not cancelled or superseded.

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18 **REVISION DATE: 4/25/01**

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N22	91-06-19		Notice of 91-10-03 meeting/Draft Agenda
N23	91-06-27		Meeting Arrangement Letter to Delegates
N24	91-09-13		ISO/TC 20/WG 6 Status and Future Activities (reissue of ISO/TC 20 N2671)
N25	91-09-13		Report on Ballot for DIS 11103 and DIS 11104
N26	91-10-03		Liaison to CCSDS re new topics
N27	91-10-03		Contribution on the formation of new TC for Space (Abram)
N28	91-10-03		New work proposal by France (included in ballot response to DIS 11103/11104)
N29	91-10-03		Work on ISO on Certification and Quality Assurance (Abram)
N30	91-10-03		Draft of ISO Development Program for 1992-1994 (Abram)
N31	91-10-09		Liaison Report to CCSDS
N32	91-12-01		ISO 11103 (IS on Radio Metric and Orbit Data)
N33	91-12-01		ISO 11104 (IS on Time Code Formats)
N34	91-12-31		Welcoming letter to JISC as P-Member
N35	91-12-31		Minutes of second meeting of ISO/TC 20/SC 13
N36	92-02-21	S(N38/1)	Draft agenda for 92-05-22 meeting
N37	92-04-22		Report of the secretariat at 92-05-22 meeting
N38	92-04-22	S(N38/1)	Second notice/agenda for 92-05-22 meeting
N38/1	92-05-22		Approved agenda of 92-05-22 meeting
N39	92-05-22		Presentation by Mr. Abram
N40	92-05-22		Sustainable Industrial Development paper (Abram)
N41	92-05-22		Article (N40 topic) from ISO Bulletin (92-04)
N42	92-05-22		Notice on Symp. on Space Tech. for Environment
N43	92-05-22		World-wide Recognition of OSI Test Results

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LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N44	92-05-22		Resolutions of 92-05-22 meeting of ISO/TC 20/SC 13
N45	92-07-22		Minutes of 92-05-22 meeting of ISO/TC 20/SC 13
N46	92-07-22		Report of ISO/TC 20/SC 13 to ISO/TC 20 Plenary (92-10)
N47	92-08-10		Draft Agenda for 92-11-17 meeting of ISO/TC 20/SC 13
N48	92-08-10		Hotel Arrangements for 92-11-17 Meeting
N49	92-12-15		Letter to ISO Central Secretariat re 92-11-17 Meeting
N50	92-12-11		Letter to Ziemann re ISPRS Type B Liaison
N51	92-12-17		Minutes of 4th meeting of ISO/TC 20/SC 13
N52	93-01-29		Letter to ISO Central Secretariat re DIS 12175 ballot request
N53	93-03-17		Draft Agenda for 93-06-09 meeting of ISO/TC 20/SC 13
N54	93-02-22		SC13 Secretariat Report for 93-06-09 Meeting
N55	93-04-26		Revised Notice of 93-06-09 Meeting and Agenda
N56	93-06-09		Minutes of 5th meeting of ISO/TC20/SC13 (Brazil)
N57	93-07-08		Letter to ISO Central Secretariat
N58	93-07-26		Preliminary Notice of 93-10 Meeting and Agenda
N59	93-09-20		Revised Notice of 93-10 Meeting and Agenda
N60	93-10-29		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Vienna
N61	93-11-14		Minutes of 6th Meeting of ISO/TC20/SC13 (Vienna)
N62	94-01-24		Preliminary Notice of 93-05-06 Meeting and Agenda
N63	94-02-25		SC13 Secretariat Report to TC20 Plenary at Beijing
N64	94-02-25		Revised Notice of 93-05-06 Meeting and Agenda
N65	94-03-09		Form 8A Submission for DIS 13419 (Packet Telemetry)
N66	94-03-09		Form 8A Submission for DIS 13764 (SFDU CA)
N67	94-03-09		Transmittal Letter to ISO re DIS13419/13764
N68	94-03-24		Form 8A Submission for DIS 12171 (T/C-Channel Services)

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ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N69	94-03-24		Form 8A Submission for DIS 12172 (T/C-Data Routing Services)
N70	94-03-24		Form 8A Submission for DIS 12173 (T/C-Command Operating
			Procedures)
N71	94-03-24		Form 8A Submission for DIS 12174 (T/C-Data Management Services)
N72	94-03-24		Form 8A Submission for DIS 12175 (SFDU-Structure & Construction
			Rules)
N73	94-03-24		Transmittal Letter to ISO re DIS12171-12175
N74	94-04-08		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Villafranca
N75	94-09-27	S(N75/1)	Minutes of 7th Meeting of ISO/TC20/SC13 (Villafranca)
N75/1	94-10-14		Correction to Attachment D to Minutes of 7th Meeting
N76	94-09-28		Form 8A Submission for DIS 13764 F (SFDUs CA Procedures)
N77	94-09-29		Transmittal Letter to ISO re DIS 13764 F
N78	94-10-13		Draft Agenda for 94-11-11 Meeting
N79	94-10-13		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in Greenbelt
N80	94-11-02		Letter to Mr. A. V. Mitin, NIISU Director (Russia)
N81	95-02-01		Minutes of 8th Meeting of ISO/TC20/SC13 Meeting in Greenbelt
N82F	94-11-15		Form 8A Submission for DIS 12172 (F) (T/C-Data Routing Services)
N83F	94-11-15		Form 8A Submission for DIS 12174(F) (T/C-Data Management Services)
N84	94-11-15		Transmittal Letter to ISO re DIS 12172 and 12174 (F)
N85	94-11-15		New Work Item Proposal by SC 14 re Space Systems-Archiving Space
			Data
N86	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns
			Concept
N87	94-11-15	C(6/95)	New Work Item Proposal by SC 14 re Space Systems-Mission Opns
		. ,	Function

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ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N88	94-12-20		Liaison between ISO/TC 211 and ISO/TC 20/SC 13
N89F	94-11-15		Form 8A Submission for DIS 13419 (Packet Telemetry) (F)
N90	94-11-15		Transmittal Letter to ISO re DIS 13419
N91	94-12-12		Letter to ISO Central Secretariat re 94-11-11 Meeting
N92	94-12-13		Current Status of ISO/TC 20 Draft Standards
N93	95-01-06		Liaison between INTELSAT and ISO/TC 20/SC 13
N94	95-01-06		Liaison between CEOS and ISO/TC 20/SC 13
N95	95-01-12	S(N95/1)	Preliminary Notice of 1995-05-12 Meeting and Agenda
N95/1	95-03-10		Draft Agenda for 95-05-12 Meeting
N96	95-03-17		Letter to ISO/TC20/SC13 Distribution re 1995-05-12 Mtg
N97	95-05-01		SC 13 Secretariat Report to ISO/TC20/SC13 Meeting in St. Hubert
N98	95-05-12		Form 8A Submission for DIS 13420 (AOS Networks&Data Links:
			Architectural Specification)
N99	95-05-	C	Transmittal Letter to ISO re DIS 13420
N100	95-05-26		Letter to ISO Central Secretariat re 95-05-12 Meeting
N101	95-05-12		Minutes of 9th Meeting of ISO/TC20/SC13 in St. Hubert
N102	95-05-12		Form 8A Submission for CCSDS 641.0-B-1 (Parameter Value Language
			Specification) as DIS document
N103	95-05-12		Form 8A Submission for CCSDS 642.0-B-1 (ASCII Encoded English) as
			DIS document
N104	95-06-09		Letter to ISO/TC 20/SC 13 Distribution re Update to Directory
N105	95-06-12		Letter to Standards Council of Canada
N106	95-07-10		SC13 Secretariat Report to TC20 Plenary at Washington DC
N107	95-07-05		Letter to ISO Central Secretariat re Data Archiving WI

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N108	95-07-05		Letter to ISO Central Secretariat re Mission Ops WI's (joint letter from
			SC13 and SC 14)
N109	95-07-03	S(N109/1)	Preliminary Notice of 1995-11-16 Meeting and Agenda
N109/1	95-11-07		Draft Agenda for 95-11-16 Meeting
N110	95-10-12		SC 13 Secretariat Report to ISO/TC20/SC13 Mtg in Toulouse
N111	95-08-07		Letter to ISO/TC20/SC13 Chair re 13419 Report of Voting
N112	95-08-08		Letter to ISO Central, Approval of coversheet document for ISO/DIS
			14961 and 14962
N113	95-08-09		Letter to ISO Central Secretariat re Request for Addition to Cover Pages
			for ISO/DIS 12171 thru 12174
N114	95-08-21		Letter to ISO/TC20/SC13 Chair re 13764 Report of Voting
N115	95-09-11		Letter to ISO/TC20/SC13 Distribution re 1995-11-16 Mtg
N116	95-10-02		Letter to ISO/TC 20/SC 13 Chair re 12172 Report of Voting
N117	95-10-02		Letter to ISO/TC 20/SC 13 Chair re 12174 Report of Voting
N118	95-10-02		Letter to ISO Central Secretariat, Approval of coversheet document for
			ISO/DIS 13420
N119	95-10-05		Letter to ISO Central Secretariat re Addition to cover pages for ISO 12171,
			12172, and 12173 and 12174
N120	95-10-12		Information for ISO/TC 20/SC 13 10th Meeting - 16 November 1995
N121	95-11-10		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Toulouse
N122	95-11-16		Minutes of 10th Meeting of ISO/TC 20/SC 13 in Toulouse
N123	95-11-28		Letter to ISO Central Secretariat, Approval of Proof for ISO 13764
N124(F)	95-12-04		Letter to ISO Central Secretariat re ISO/DIS 13420 - corrected page to
			French text
N125	96-01-22		Letter to ISO Central Secretariat re 95-11-16 Meeting

^{*} C = Cancelled; S = See superseded version; if no entry, then document not cancelled or superseded.

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ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N126(F)	95-12-04		Form 8A, Submission for ISO/DIS 14962 (ASCII Encoded English) (F)
N127	96-01-22		Letter to Mr. Niechoda (Poland)
N128	96-01-22		Letter to Mr. Taneja (India)
N129	96-01-22	S(N129/1)	Preliminary Notice of 1996-05-14 Meeting and Agenda
N129/1	96-05-01	,	Draft Agenda for 96-05-14 Meeting
N130(F)	96-01-17		Form 8A, Submission for ISO/DIS 14961 (Parameter value language
` '			Specification) (F)
N131	96-01-23		Letter to SC 13 re Review of ISO 11103 and 11104
N132	96-02-05		Status of ISO/TC 20/SC 13 Work Program
N133	96-03-05		Letter to TC 211 re Liaison activities
N134	96-02-07		Letter to ISO Central Secretariat re NWI 14721, Space systems
			Archiving space data
N135	96-03-12		Letter to ISO/TC 20/SC 13 regarding May 1996 meeting
N136	96-05-01		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Pasadena
N137	96-05-14		Minutes of 11th Meeting of ISO/TC 20/SC 13 in Pasadena
N138	96-05-22		Archiving Model to Canada for transmittal to TC211
N139	96-06-11		Letter to ISO Central re DIS 12171.2 TelecommandChannel Service
N140	96-06-11		Letter to ISO Central re DIS 13419 Packet Telemetry
N141	96-06-11		Letter to ISO Central Secretariat re 96-05-14 Meeting
N142	96-06-11		Letter to ISO/TC 211 re Relationship between CCSDS and TC 20/SC 13
N143(E)	96-06-11		Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data
			Units Control Authroity Data Structures)
N143(F)	97-05-09		Form 8A Submission for CCSDS 632.0-B-1 (Standard Formatted Data
			Units Control Authroity Data Structures)

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N144(E)	96-06-11		Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference
			Model, Part 1: SLE Services) (English text)
N144(F)	96-		Form 8A Submission for CCSDS 910.4-B-1 (Cross Support Reference
			Model, Part 1: SLE Services) (French text)
N145	96-07-03		Preliminary Notice of 1996-11-15 Meeting and Agenda
N146	96-07-15		Letter to ISO/TC 20/SC 13 regarding Status of Proposed Work Items in
			the Mission Operations Area
N147	96-07-22		Letter to ISO Central re revised French & English texts for ISO/DIS 13419
N148	96-07-22		Letter to ISO Central re English text for ISO/DIS 12171:2
N148(F)	96-08-07		Letter to ISO Central re French text for ISO/DIS 12171:2
N149	96-08-07-		Letter to ISO Central re Liaisons with other ISO committees
N150	96-09-06		Periodical Review of International Standards (11103 and 11104)
N151	96-09-16		Letter to ISO Central re CCSDS Work Items
N152	96-10-03		Letter to Mr. Wittner (Argentina)
N153	96-11-15		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Germany
N154	96-11-15		Minutes of 12th Meeting of ISO/TC 20/SC 13 in Germany
N155	97-01-21		Preliminary Notice of 1997-05-28 Meeting and Agenda
N155/1	97-05-15		Draft Agenda for 1997-05-28 Meeting
N156	97-01-28		SC13 Secretariat Report to TC20 - 1997
N157	97-05-15		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Brazil
N158	97-05-28		Minutes of 13th Meeting of ISO/TC 20/SC 13 Meeting in Brazil
N159	97-07-14		Preliminary Notice of 1997-11-14 Meeting and Agenda
N160	97-10-10		Form 8A Submission for CCSDS 121.0-B-1: Lossless Data Compression
N161	97-10-10		Form 8A Submission for CCSDS 622.0-B-1: Standard Formatted Data
			Units Referencing Environment

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ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N162	97-10-10		Form 8A Submission for CCSDS 644.0-B-1: The Data Description
			Language EAST Specification
N163	97-10-10		Form 8A Submission for CCSDS 704.0-B-1, Advanced Orbiting Systems,
			Networks and Data Links: Audio, Video and Still-image Comm Services
N164	97-11-14		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in England
N165	97-11-14		Draft ISO/TC 20/SC 13 Master Plan
N166	97-11-14		Minutes of the 14th Meeting of ISO/TC 20/SC 13 Meeting in England
N167	97-12-02		Form 8A Submission of CCSDS 713.0-R, Space Communications Protocol
			Specification (SCPS)Network Protocol (SCPS-NP)
N168	97-12-02		Form 8A Submission of CCSDS 713.5-R, Space Communications Protocol
			Specification (SCPS)Security Protocol (SCPS-SP)
N169	97-12-02		Form 8A Submission of CCSDS 714.0-R, Space Communications Protocol
			Specification (SCPS)Transport Protocol (SCPS-TP)
N170	97-12-02		Form 8A Submission of CCSDS 717.0-R, Space Communications Protocol
			Specification (SCPS)Security Protocol (SCPS-SP)
N171	98-01-28		Preliminary Notice of 1998-06-09 Meeting and Agenda
N171.1	98-05-08		Draft Agenda for 1998-06-09 Meeting
N172	98-06-09		SC 13 Secretariat Report to ISO/TC 20/SC 13 Meeting in Japan
N173	98-09-25		Minutes of 15th Meeting of ISO/TC 20/SC 13 in Japan
N174	98-07-01		Letter forwarding PKT TLM Services BB for progressing to ISO IS
N175	98-07-24		Preliminary Notice of 1998-11-06 Meeting in Japan
N175.1	98-10-02		Draft Agenda for 1998-11-06 Meeting in Darmstat
N176	98-08-28		Letter accepting Dr. Markarian as CCSDS Associate Member
N177			Not Used

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N178	98-09-22		Form 8A Submission for CCSDS 103.0-B-1: Packet Telemetry Services
			Blue Book Dated May 1996
N179	98-12-02		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Germany
N180	98-12-0-2		Letter to Abram requesting delay in processing four SCPS DISs to FDISs
N181	98-12-04		Request to Secretary-General for information re Registering Control
			Authority with ISO
N182	98-12-07		Letter forwarding ISO form 13 to Abram re EAST DIS
N183	98-12-07		Letter forwarding ISO form 13 to Abram re Referencing Environment DIS
N184	98-12-29		Letter to Abram requesting delay in processing Audio/Video DISs
N185	99-03-03		Covering Letter for Draft Agenda for 1999-05-19 Meeting
N186	99-02-03		Draft Agenda for 1999-05-19 Meeting in California
N187	99-02-03		Letter to Abram re Cover Sheet for Packet Services, DIS 17433
N188	99-02-04		Letter forwarding ISO form 13 to Abram re Lossless Compresssion DIS
N189	99-05-03		Minutes of 16th Meeting of ISO/TC20/SC13 in Darmstadt
N190	99-04-19		Covering Letter for Interim Agenda for 99-05-19 meeting
N191	99-04-19		Secretariat's package for 99-05-19 Meeting in California
N192	99-05-28		Letter to Abram approving proposed Cover Sheet for Packet Services
N193	99-05-08		Letter to Abram approving proposed Cover Sheet for Ref Environment
N194	99-07-01		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Newport Beach,
			CA
N195	99-07-01		Minutes of 17th Meeting of ISO/TC20/SC13 in Newport Beach, California
N196	99-08-05		Letter to Abram reconfirming three ISO standards for five more years
N197.1	99-08-06		Form 13 to Abram requesting FDIS status for Four SCPS DISs
N197.2	00-03-03		Letter to Abram requesting FDIS status for Four SCPS DISs
N198	99-08-06		Letter/Form 8A to Abram requesting DIS status for OAIS Ref Model
			- 0

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ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N199	99-09-16		Covering Letter announcing for 99-12 meeting in Frascati, Italy
N200	99-09-16		Draft Agenda for 99-12 meeting in Frascati, Italy
N201	99-10-04		Letter to Abram updating ISO Lists as requested
N202	99-11-23		MC Secretariat's Report package for 99-12-13 Meeting in ESRIN Italy
N203	99-11-23		SC 13 Secretariat Report package for 99-12-14to ISO/TC 20/SC 13
			Meeting in Italy
N204	00-01-19		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Frascati, Italy
N205	00-03-27		Transmittal Letter to Members Announcing S2000 Meeting in Toulouse
N206	00-03-27		Draft Agenda for S2000 meeting in Toulouse, France
N207	00-04-24		Minutes of 18th Meeting of ISO/TC20/SC13 at ESRIN in Frascati, Italy
N208	00-05-14		Invitation to Ukraine to attend June 2000 SC13 meeting
N209	00-05-14		Invitation to Sweden to attend June 2000 SC13 meeting
N210	00-05-22		Letter to Abram approving OAIS Cover Sheet
N211	00-05-22		Letter to Ivarnez forwarding OAIS Cover Sheet approval
N212	00-05-30		Form 13 requesting FDIS vote for Packet TLM Services
N213	00-05-30		Letter forwarding Form 13 re Packet TLM Services
N214	00-07-23		SC13 Secretariat Report of ISO/TC20/SC13 Meeting in Toulouse, France
N215	00-08-24		Letter requesting DIS processing of Revised TC Blue Book
N215.1	00-08-24		Form 8A requesting DIS processing of Revised TC Blue Book
N216	00-08-24		Letter requesting DIS processing of Upgraded PVL Blue Book
N216.1	00-08-24		Form 8A requesting DIS processing of Upgraded PVL Blue Book
N217	00-09-21		E-Mailed Draft Agenda for SC13 Fall 2000 meeting in Boulder
N217.1	00-10-25		Revised Draft Agenda for SC13 Fall 2000 meeting in Boulder
N218	00-10-03		Minutes of 19th Meeting of ISO/TC20/SC13 at Toulouse
N219	00-10-13		Letter to Abram approving Cover Sheet for Updated PVL

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COMMUNICATIONS LOG

ISO TC 20/SC 13/N18 REVISION DATE: 4/25/01

LOG OF DOCUMENTS FOR ISO TC 20/SC 13 (Continued)

"N"	Date		
Number	Issued	Status *	Description
N220	00-10-13		Letter to Abram approving Cover Sheet for Updated Telecommand
N221	00-10-25		Covering Letter announcing for 00-11-30 meeting in Colorado, US
N222	00-10-25		Secretary Package for 30/11/00 meeting

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Attachment 3b

Enclosure A-5 (to ISO TC20/SC13/N222)

Documents Received from ISO Central SecretariatJune, 2000 November 2000

From	Date	Subject
Francois Abram/ANSI Secretariat	2000-06-15	DIS 14721 - Open Archival Information System Reference Model (English and French Translations)
Jay Myers	2000-06-22	TC20/N3062 Draft report on 37 th Plenary Mtg
Jay Myers	2000-06-22	TC20/N3064 Follow-up of ISO/TC20 work
Jay Myers	2000-06-22	TC20/N3065 BS 4N 100 Aircraft oxygen systems and equipment
Francois Abram	2000-06-25	Record of Affirmative voting on FDIS 15887 (Lossless Compression, FDIS 15888 (Referencing Environment) and FDIS 15889 (EAST Specification)
M.A. Smith	2000-08-31	List of ISO/IEC/JTC/SC and ISO/TC/SC chairmen, Secretaries, associated Central Staff
Francois Abram	2000-09-04	Proposed Cover Sheet for Updated Telecommand Channel Service Architectural Specification
Francois Abram	2000-09-04	Proposed Cover Sheet for Updated PVL specification
M. A. Smith	2000-09-07	Formats and procedure for submission of files for DIS and FDIS
M. A. Smith	2000-09-15	Standard Value Assessment Tool forms
Francois Abram	2000-10-16	Copies of ISO Standards, 15891 Network Protocol, 15893- Transport Protocol and 15894 File protocol

ISO/TC 20/SC 13/N224

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ATTACHMENT 4

REPORT FROM BRAZIL



Brazil/ABNT REPORT

SC-13/TC-20/ISO MEETING

30 NOVEMBER 2000

LASP/Univ. of Colorado, Boulder, CO, USA

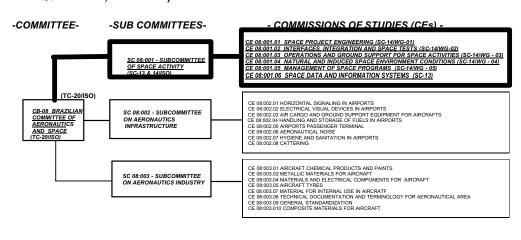
SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

p. 1/9, 20.11.00, E.W. Bergamini/CE06ABNT.doc



ABNT- BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

CB-08: BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE (ISO TC-20 EQUIVALENT, IN BRAZIL)



SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

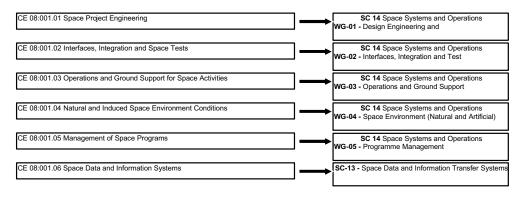
p. 2/9 , 20.11.00, E.W. Bergamini/CE06ABNT .doc



SC 08:001 SUBCOMMMITTEE AND ISO SC-14 WGs AND SC-13 RELATED STRUCTURES

ABNT / CB 08 / SC 08:001 (Space Activity)

ISO/TC-20 (Aircraft and Space Vehicles)



SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

p. 3/9, 20.11.00, E.W. Bergamini/CE06ABNT .doc



ABNT- BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

CURRENT MAIN ACTIONS OF (SC-13 EQUIVALENT) CE 08:001.06/ABNT/BRAZIL

- The following documents are well advanced in their or translation or elaboration, in Portuguese:
 - 1. CCSDS 121.0-B-1 (Blue Book); ISO/15887: Lossless Data Compression OBJECTIVE: To be proposed as a BRAZILIAN STANDARD to ABNT, by May 2001;
 - 2. CCSDS 120.0-G-1 (Green Book): Lossless Data Compression OBJECTIVE: To be appended as an INFORMATIVE ANNEX to the pertinent Brazilian Standard, to **ABNT**, by May 2001;
 - 3. CCSDS 320.0-B-2 (Blue Book): CCSDS Global Spacecraft Identification Field: Code Assignment **Control Procedures.**
 - OBJECTIVE: To be proposed as a BRAZILIAN STANDARD to ABNT, by May 2001;
 - 4. CCSDS A30.0-G-3 (Green Book): Consultative Committee for Space Data Systems Glossary OBJECTIVE: To be appended as a an INFORMATIVE ANNEX to the pertinent Brazilian Standard, to ABNT, by October 2001;
 - 5. Collection of SUMMARIES (so far) of some 20 of the CCSDS Blue Books/ISO Standards. OBJECTIVE: A first version, to be appended as an INFORMATIVE ANNEX to a pertinent Brazilian Standard, to ABNT, by May 2001.

SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

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MAIN STEPS FOR GENERATING BRAZILIAN STANDARDS FROM CCSDS AND ISO (CCSDS ORIGINATED) DOCUMENTS

FIRST STEP: Generation of a version in Portuguese of the document, in strict CCSDS format:

SECOND STEP: Mapping of the document to the ABNT format for submission as a Brazilian Standard (NORMA ABNT), where the original Annex(es), if any, is (are) re-named as STANDARD ANNEX(es) (ANEXOS NORMATIVOS) and where the original (CCSDS), pertinent Green Book(s) is (are) aggregated as INFORMATIVE ANNEX(es). (ANEXO(s) INFORMATIVO(s)).

SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

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ABNT- BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

New Site Configurations of THE BRAZILIAN INFORMATION NETWORK FOR THE STANDARDIZATION OF SPACE ACTIVITIES RBNAE

MAIN SITE (Since August 2000): http://www.rbnae.atsme.inpe.br	Internet
ntep.//www.ronac.atsme.mpc.or	Extranet (Login)
SIMPLIFIED SITE (Since December http://www.atsme.inpe.br/rbn	ber 1998): Internet Extranet

SITE OF THE BRAZILIAN ASSOCIATION FOR TECHNICAL STANDARDS ABNT: http://www.abnt.org.br

SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

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Home Page and Current Contents of the RBNAE MAIN SITE at: http://www.rbnae.atsme.inpe.br



SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

p. 7/9, 20.11.00, E.W. Bergamini/CE06ABNT .doc



ABNT- BRAZILIAN ASSOCIATION OF TECHNICAL STANDARDS
CB 08 - BRAZILIAN COMMITTEE OF AERONAUTICS AND SPACE
SC 08:001 - SUBCOMMITTEE OF SPACE ACTIVITY
CE 08:001.06 - COMMISSION OF STUDIES IN SPACE DATA AND INFORMATION SYSTEMS

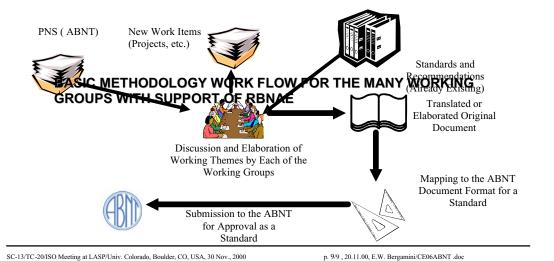
Main Addresses Of The RBNAE SIMPLIFIED SITE

http://www.atsme.inpe.br/rbn.htm	Home Page
http://www.atsme.inpe.br/cb8.htm	CB-08 Entry Page
http://www.atsme.inpe.br/sc1.htm	SC 08:001 Entry Page
http://www.atsme.inpe.br/ce1.htm	CE 08:001.01 Entry Page
http://www.atsme.inpe.br/ce2.htm	CE 08:001.02 Entry Page
http://www.atsme.inpe.br/ce3.htm	CE 08:001.03 Entry Page
http://www.atsme.inpe.br/ce4.htm	CE 08:001.04 Entry Page
http://www.atsme.inpe.br/ce5.htm	CE 08:001.05 Entry Page
http://www.atsme.inpe.br/ce6.htm	CE 08:001.06 Entry Page
http://www.atsme.inpe.br/sc2.htm	SC 08:002 Entry Page
http://www.atsme.inpe.br/sc3.htm	SC 08:003 Entry Page

SC-13/TC-20/ISO Meeting at LASP/Univ. Colorado, Boulder, CO, USA, 30 Nov., 2000

p. 8/9, 20.11.00, E.W. Bergamini/CE06ABNT.doc





ATTACHMENT 5

REPORT FROM CHINA

China Report to ISO/TC20/SC13? Dec.30, 2000

1. Support and take an active part in sc13 activities

For a year, CASI has organized chinese experts to discuss draft standards distributed by the secretariat of ISO and made suggestions for revision of china. Approved by CAS (China Association for Standardization), we have replied following draft international standards.

ISO/FDIS 15887 : Space data and information transfer systems-Data systems-Lossless data compression

ISO/FDIS 15888:Space data and information transfer systems-Standard formatted data units-Referencing environment

ISO/FDIS 15889 : Space data and information transfer System-Data description language-EAST specification.

2.Apply on CCSDS and SC13 standards

As a p-member represented china, CASI has paid more attention to tracking SC13 standards, sent interested agencies to attend meting held by CCSDS and SC13, reviewed, evaluated and voted for draft international standards of SC13. CASI organize specialists to track and study other documents of CCSDS and SC13. Our purpose is international co-operation, learn from strengthen international technology and experiences, raise china's telemetry and command technology, and approach the international standards. CASI has done a lot of propaganda work to promote international standards in china aerospace industry as well. We are ready to implement CCSDS and SC13 standards. At the same time, « CCSDS Standard Space Data System Research Plan» prepared by CAST is under implementing for the purpose to compatible with CCSDS and SC13 international standards. All this gives china a good chance to adopt CCSDS and SC13 international Standards.?

3.Emphasise the research work of CCSDS and SC13 standards

In addition to the above work we have done, CASI and CAST is trying hard to study CCSDS and SC13 standards and participate in

ATTACHMENT 6

REPORT FROM FRANCE

CNES REPORT TC20/SC13 MEETING BOULDER - NOVEMBER 2000

1-MANAGEMENT:

- 1-1- ORGANIZATION:
- In the CCSDS domain,
- -CNES is working with SC13 secretariat and with ISO central secretariat in order to move CCSDS books to ISO standards, according to ISO procedures.
- -France is represented by AFNOR (French Normalisation Organisation) for the ISO votes. Concerning CCSDS, AFNOR build up its position from BNAE (French Office for Space and Aerospace Standardisation) advises. CNES is a member of BNAE together with industry. CNES also uses the BNAE channel to inform the french industry community and to promote CCSDS recommendations.
- At CNES, Roland IVARNEZ is Chairman of TC20/SC13. He is supported by Francois FORESTIER and also, since july 2000, by Jacques LAPEYRE.

1-2- AREA OF AGENCY INVOLVEMENT:

Global, due to the chairmanship

1-3- MANPOWER ALLOTED:

Equivalent to about 1/2 man x year

2- IMPLEMENTATION ACTIVITIES:

2-1- SPACECRAFT UTILIZING SC13 STANDARDS:

Mini and micro satellites family, will be compatible with Telemetry and CommandsCCSDS recommandations. Among them, new decided S/C are: "COROT" and "Roue Interferometrique"

2-2- GROUND FACILITIES UTILIZING SC13 STANDARDS:

EAST recommandation for data description is used on an operational basis on many projects; among them : SPOT numerical archiv; DORIS on ENVISAT; JASON;

3- DOCUMENTATION ACTIVITIES:

3-1- ADOPTION OF SC13 STANDARDS

National approval:

-After CNES agreement, BNAE approved without comments the ISO/DIS 14721 -OAIS

Recommendations progressed by the SC13 secretariat and the Chairman:

- From recent CCSDS MC Meetings:
 - -ISO 17433- Packet Telemetry Services should be progressed to FDIS within end of year. (F13 transmitted)
 - ISO 15891- SCPS-Network protocol
 - ISO 15892- SCPS-Security protocol
 - -ISO 15893- SCPS-Transport protocol
 - -ISO 15894- SCPS-File protocol

- -ISO 15887- Lossless data compression
- -ISO 15888- Standard formatted data units- Referencing environment
- -ISO 15889- Data description language- EAST specification have been published as IS on october 00
- From june CCSDS MC Meetings:
 - -ISO 12171- Telecommand part 1 Channel services (upgrade)
 - -ISO 14961- PVL Specification (upgrade) have been published as IS on october 00

3-2- TRANSLATION:

Translation into french of documents:
ISO 12171- Telecommand part 1 - Channel services
ISO 14961- PVL Specification
will be available at the end of december 00.

4- TECHNICAL ACTIVITIES:

4-1- STATUS OF ACTION ITEMS:

SC-S00-A2: Comments on strategic plan: No objections

SC-S00-A3: Comments on report template: None; template adopted

4-2- STATUS OF ON-GOING ASSIGNEMENTS:

None

4-3- STATUS OF LIAISON ACTIVITIES:

None

5- CONCLUSION:

Cnes maintains its interest for CCSDS and SC13 activities

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ATTACHMENT 7

REPORT FROM JAPAN

NASDA REPORT to 20th ISO/TC20/SC13, Nov. 2000

At Univ. of Colorado, Boulder, CO, USA

1. DIS disposition

ISO / TC20 / SC13 National Committee of Japan approved the following ISO standard

(1) DIS 14721 Space data and information transfer systems Open Archival Information System Reference Model

2. Reaction to action items

ISO TC20 / SC13 Action Items / NASDA

Old or continuing	Description	Status report
A/I		
SC-13/93-1	Standards developed by standard bodies other than	No proposal
	CCSDS(Continuing action item)	
New A/I number	Description	Status report
SC-S00-A2	Comment on the Strategic Plan to be distributed as a result	No comment
	of SC-S-A1	
SC-S00-A3	Items needing clarification in the draft Agency Report	No comment
	Template	
SC-S00-A5	Electronic copies of presentation materials	Completed. (Sent on Tue, 04 Jul 2000)

3. Change request to ISO/TC20/SC13 Directory

NASDA requests change to the ISO/TC20/SC13 Directory document.

Mr. Mito was replaced as NASDA delegate to SC13 by Mr. Kuramasu.

National Space Development Agency of Japan

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ATTACHMENT 8 REPORT FROM THE UNITED KINGDOM

United Kingdom report to ISO TC20/SC13, November 2000

P Allan, 24 November 2000

Management

Organization / Changes

The work of the British Standards Institute (BSi) ACE/67 (Aerospace Committee for Engineering 67) Committee for Information Transfer Standards has continued its work in reviewing the drafts, DIS and FDIS documents from SC13. A similar committee (ACE/68) tracks the work of SC14 and P. Allan, the chairman of ACE/67, attends some of the ACE/68 meetings. An Electronic Document system has been adopted for both ACE/67 and 68 and it is intended that it will become the sole means of distributing documents in the near future.

BSi are proposing that in the future, they will not take ISO standards and make them into British Standards and that people should use the ISO standards themselves. Since all that BSi effectively does to the document to generate the current British Standard from an ISO one is to add a front sheet; there is a logical argument for this change. More importantly, however, BSi does make comments on the draft ISO standards, and this will need to continue in the future.

Areas of Agency Involvement

Funding for these activities is provided jointly by BNSC and the two relevant UK research councils, PPARC and NERC

Manpower Allotted

The manpower allotted to this area is mixed in with the funding provided to support CCSDS activities. The total funding amounts to approximately half a staff-year, although only a small part of this goes directly to SC13 and ACE/67 activities.

Implementation Activities

Spacecraft Utilizing SC13 Standards

ACE STRV

Ground Facilities Utilizing SC13 Standards

RAL ground station DERA ground station Surrey Satellites Ltd

The above do use all of the available standards, although the usage is increasing with time.

Documentation Activities

All of the draft standards from SC13, and reviewed by ACE/67, have been approved and passed on for issue as BSi Standards.

The standards now issued as BSi standards are as follows:

BS Z 1	Radio Metric and Orbit data
BS Z 2	Time Code Formats
BS Z 3	Telemetry Channel Coding
BS Z 4	SFDUs Structure and construction rules
BS Z 5	SFDUs Control authority procedures
BSZ6	PVL specification
BS Z 7	ASCII encoded English
BS Z 8	Packet Telemetry
BS Z 9	AOS Network and data links
BS Z 10	SFDUs Control authority data structures
BS Z 11	Cross Support Reference Model SLE
BS Z 12	Telecommand Channel Service
BS Z 13	Telecommand Data Management Service
BS Z 14	Telecommand Command Operations procedures
BS Z 15	Telecommand Data Routing Service
BS Z 17	Data systems Lossless data compression
BS Z 18	Standard formatted data units Referencing environment
BS Z 19	Data description language EAST specification

The OAIS reference model has been circulated for comments as a draft BSi standard. The period for comments has just closed.

Technical Activities

Status of Action Items

There are no action items that currently apply.

Status of On-Going Assignments

The on-going assignment is to receive documents from the British Standards Institute and to ensure that it is reviewed for BSi and to then approve it (or not) for issuance as a British Standard. However, this is likely to change as indicated in the first section.

Status of Liaison Activities

The chair of ACE/67 (Peter Allan) attends meetings of ACE/68, which processes standards relating to space systems and operations. In addition, ACE/68 shadows the work of the European Co-operation for Space Standardization (ECSS) committees.

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ATTACHMENT 9 REPORT FROM THE UNITED STATES

U.S. Report to ISO/TC20/SC13

ISO/TC20/SC13 Meeting Boulder, Colorado, USA

30 November 2000

Adrian J. Hooke Chairman, US Delegation +1.818.354.3063 adrian.hooke@jpl.nasa.gov

US Activities Since Last Meeting

- Conducted U.S. review of ISO CD 14721 (OAIS Reference Model) and fed-in comment from the International Council for Scientific and Technical Information as part of the US response. The US voted "Affirmative".
- The US Delegation continues to be very concerned that the International Traffic and Arms Regulation (ITAR) may severely limit our ability to function in the international standards arena. The question is whether a US organization can release anything that has a potential for military use even if in the public domain.
- We continue to actively pursue establishment of a national forum whereby NASA and the US military community can work together to assure that SC13 open standards are appropriately utilized in the context of interoperability across the US national space support infrastructure.